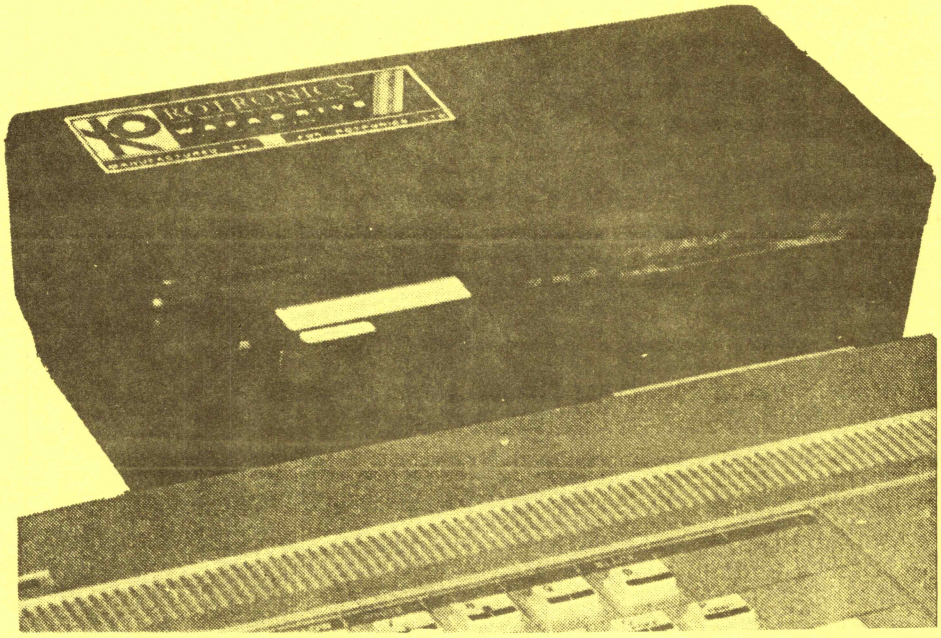
ONLY $99.95 ★

How much would you expect to pay for a dual 128K fast access storage system for your Timex 2068 that included Centronics and RS232 interfaces, Spectrum software and buss emulation, and free word processing software as standard?

THE INCREDIBLE DAMCO/ROTRONICS WAFADRIVE

*Wafadrive for the Sinclair Spectrum **$99.95!**
The Timex 2068 requires the new ***Rainbow Plus*** interface. The ***Rainbow Plus*** contains its own Spectrum emulation EProm plus a Spectrum compatible expansion buss.



A fast reliable dual-drive storage system

Integrated System

The Wafadrive is a complete system which contains the micro interface, two 128K drives, RS232 and Centronics ports, all in one attractively-styled, compact unit. There is a minimum of connecting leads and no extra boxes to clutter the desk top. Like the majority of professional systems, the units are dual drive. This offers the optimum balance between system flexibility and cost. Built-in serial and parallel interfaces allow the direct connection of just about any popular printer.

Fast and Reliable

The Wafadrive achieves very fast loading and saving, but not at the expense of reliability. Extensive research and the use of high grade materials ensure that the Wafadrive will give years of dependable operation. Data integrity is on a par with floppy disk. The fully interchangeable wafers are available in three sizes–128K, 64K and 16K. Low capacity wafers give faster access. They are therefore most suitable for program development applications. The high capacity wafers are suitable for more general data storage. Loading rate is approximately 2K per second–almost twice as fast as similar products.

Software

Armed with the comprehensive user manual, blank wafer and word processor supplied, you can use your Wafadrive right away. There is also a rapidly growing range of software to enable the programmer and games player to exploit the Wafadrive system to the full.

Spectrum Emulation

The new ***Rainbow Plus*** Interface converts the Timex 2068 to a Spectrum! The ***Rainbow Plus*** is both an emulator and Spectrum compatible expansion buss all in one. The improved Spectrum operating system allows you to run thousands of Spectrum software titles as well as Spectrum hardware (like the Wafadrive) on the Timex 2068. Its compact plastic case is designed to compliment the 2068. Only $49.95 complete.

New Products Catalog

Our new catalog, featuring exciting Timex/Spectrum hadware and Wafadrive software is now available free!

DAMCO/ROTRONICS WAFADRIVE PRICE LIST

DAMCO/ROTRONICS WAFADRIVE (Spectrum version)	**$99.95**
16K Wafer	**$2.99**
64K Wafer	**$3.49**
128K Wafer	**$3.99**
RS232 Cable	**$12.95**
Centronics (Parallel) Cable	**$12.95**
New *Rainbow Plus* Spectrum Interface	**$49.95**

Total:

VISA MasterCard

Postage $5.00 for Wafadrives $2.00 per order all other items. (No postage required for cables, wafers, or interfaces if ordered with drive.)

MA residents add 5% sales tax.

ORDERING INFORMATION

Payment can be made in the form of money order, check, VISA, or Mastercard. Personal checks take two weeks to clear. VISA and Mastercard orders must include number, expiration date, and owner's signature.

☐ I enclose a check/Money Order
☐ Charge my VISA/MC account no.
☐ VISA/MC Expiration date

Signature:

Name:

Address:

Mail to: DAMCO ENTERPRISES
67 Bradley Ct.,Fall River, MA 02720
(617) 678-2110

Due to the fluctuation in the international currency, our prices are subject to change without notice.

Wafadrive

Specification of the Rotronics Wafadrive

Physical	
Size:	230mm wide x 110mm deep x 80mm high
Weight:	900g
Cabinet:	Injection moulded, textured ABS
Colour:	Black with colour graphics
Indicators:	Two "drive active", one "power" red LEDs
Drives	
Type:	Dual BSR "stringy floppy"
Capacity:	Min. 128K formatted (using 50' wafers)
Tape format:	Single track, 1K sectors
Data Format:	FM encoded
Tape speed:	10"/sec (read/write) 15"/sec (search)
Data integrity:	1 in 10^8 bit error rate
Reliability:	5000 hours MTBF
Transfer rate:	18K Baud (2K Bytes/sec approx.)
Access time:	Worst case – 6.5 secs (16K wafers), 45 secs (128K wafers)
Wafers	
Type:	"Entrepo stringy floppy" cartridges
Capacity:	16K, 64K and 128K (formatted)
Tape:	Infinite loop, 1/16" width. Specially developed backing and lubrication
Life:	5000 passes min.
Size:	67 x 45 x 6mm
Write protection:	By removable tab
Tape protection:	Automatic sliding cover prevents damage
Electrical	
Connections:	To computer via ribbon cable and standard connector. Connections passed on at rear of Wafadrive, enabling connection of ZX printer etc.
Power source:	9V nominal, derived from computer
RS232 Interface	
Implementation:	Five wire – RXD, TXD, RTS, CTS and GND
Baud rates:	Software selectable – 110, 150, 300, 600, 1200, 2400, 4800, 9600 & 19200
Centronics Interface	
Implementation:	Eleven wire – DATA 0-7, BUSY, STROBE and GND
Operating system	
Size:	8K ROM – paged automatically
Reserved RAM:	2K Bytes
Files supported:	Program machine code or data files
Number of files:	32 maximum (16 using 16K wafers)

Command syntax

Given below is a brief summary of the commands applicable to Wafadrive operation.

NEW *	Initialises O/S
NEW #	Clears BASIC program
NEW	Clears BASIC and O/S
FORMAT * "d:wafername"	Formats new wafer
CAT * "d:"	Displays wafer directory
CAT # "d:"	Sets default drive
SAVE * "d:filename"	Save BASIC program
SAVE * "d:filename" LINE run	Save with auto-run
SAVE * "d:filename", start, length, run	Save machine code
SAVE #	Save-with-replace
LOAD *	Load first program
LOAD * "d:filename"	Load specified program
LOAD * "d:filename", start, length	Load and relocate m/code
MERGE * "d:filename"	Merge programs
VERIFY * "d:filename"	Verify program, m/code
ERASE * "d:filename"	Erase file(s)
MOVE * "d:filename 1" TO "d:filename 2"	Copy file(s)
OPEN # *stream; channel	Open stream to channel
CLOSE # *stream	Close stream and channel
PRINT #stream;‹string/data/variables›	Send data to stream
INPUT #stream;‹variables›	Get data from stream
INKEY$ #stream;‹variable›	Get character from stream
CLEAR *	Close all opened streams
FORMAT * "R",baud rate	Set RS232 baud rate
CLS *	Clear screen & attributes

Unless otherwise stated, the above figures are typical and are given for guidance only.
Rotronics reserves the right to alter specifications at any time, without prior notice.

DAMCO enterprises
67 Bradley Ct. Fall River, Mass. 02720 – (617) 678-2110

WAFADRIVE SOFTWARE

Buisness Programs:

ADDRESS MANAGER (OCP) Fast Machine code application program offering a professional standardfiling, indexing, and retrival system. Configured for 80 collum printer. * $24.95

FINANCE MANAGER (OCP) Powerful and flexible menu driven program for practically all domestic and business accountion applications. For 80 collum printer use. * $24.95

STOCK MANAGER (OCP) Interactive program which provides a controlled invoicing and stock accounting enviroment for up to 600 different product lines. 80 collum printer req'd. * $24.95

Games:

HEATHROW/NIGHTFLIGHT II (Hewson Consultants) Two excellent simulation programs (air traffic controller and flight) on one wafer. * $19.95

SEIDDAB TRIOGY (Hewson Consultants) Three space games on one wafer- all with 3D graphics. Space Wars, Seiddab Attack and Lunar Attack. * $!9.95

ARTIC COMPENDIUM (Artic) Three exciting, fast action arcade games on one wafer- Mr. Wongs loopy Laundry, Bear Bovver and World Cup Soccer. * $14.95

HUMPTY DUMPTY TRILOGY (Artic) Three Games on one wafer- Humpty Dumpty in the garden, Humpty Dumpty meets the Fuzzy Wuzzies and Engineer Humpty. * $12.95

STARBIKE (The Edge) Arcade action with superb graphics on wafer. * $12.95

SHERLOCK (Melbourne house) Text graphic adventure game in the style of the "Hobbit". Puts you in the shoes of the great detective. Complete with booklet. * $19.95

MUGSY (Melbourne House) Cartoon style adventure/arcade game in which you take the part of the boss of a ganster mob.* $19.95

Transfer programs:

TRANS EXPRESS (Romantic robot) Tape to wafer transfer utility. Automatic in operation and therefore easy to use. * $19.95

Utilities

MELBOURNE DRAW (Melborne house) Graphic and picture creation utility supplied on wafer with manual.* $12.95

ZAPP (Hewson Consultants) Comprehensive Z80 assembly language development program. Features fast single pass assembler, disassembler, single step and hex monitors. * $24.95

ROTRONICS TOOLKIT WAFER (Rotronics) Contains a number of routines which will be found invaluable to the WAFADRIVE user. * $14.95

R O T R O N I C S T O O L K I T W A F E R

Available soon (1st. December), the ROTRONICS Toolkit Wafer. Contains six useful utilities. All are wholly in machine code so as not to conflict with your BASIC programs and auto-run for maximum ease of use.

COPY: Adds the new command **DRAW *** to BASIC, facilitating high resolution screen dumps via Epson compatible printers.

BINOUT: Binary output (CHR$ 0-255) channel driver. Allows graphics etc. to be printed via stream 4 to Centronics and RS-232 ports.

CHANNEL DRIVER: Expands **TAB** and allows program listings to be printed with adjustable margin and column width via normal **LPRINT, LLIST** etc. commands.

DE-INITIALISE: De-initialises the Wafadrive Operating System, reclaiming the reserved RAM without clearing BASIC.

FILE UTILITY: Allows directory and file parameters to be investigated and changed. Accessed by the new command **GO TO ***, menu driven, eight functions:

1. Re-name file.
2. Position tape - allows files to be positioned on tape for optimal loading.
3. File attributes - displays file's length, start address, sectors used, auto-run line number/address etc.
4. Last to first - allows last file saved to be put at top of directory to become default in **LOAD *** operations.
5. Change file type.
6. File protection - stops your files being copied or accidentally erased.
7. List free sectors - allows gaps on tape to be found to accommodate your programs 'en bloc'.
8. Recover directory - useful in the event of the directory becoming corrupted.

Having used this pogram the serious Wafadrive user will not know how he has managed without it.

TRANSFER UTILITY: Also menu-driven and accessed by **GO TO ***. This utility greatly simplifies the transfer of cassette based software to wafer. Six options provided:

1. Read header - reads cassette file header and displays file length, type, start address, auto-run etc.
2. De-initialise - de-initialises the WOS to allow long or "low-RAM" programs to be accommodated.
3. Stop - Loads BASIC programs but prevents them from auto-running (including 'anti-MERGE').
4. Display memory - simple monitor, allows memory contents to be displayed and modified.
5. Count bytes - determine length of headerless files.
6. Kempston search - allows code block to be searched for IN 31 joystick command to allow it to be changed so as not to conflict with the Wafadrive.

Supplied on wafer, attractively packaged and with comprehensive 40+ page instruction manual. Price - $14.95

DAMCO/ROTRONICS WAFADRIVE PRICE LIST

PART NO.	DESCRIPTION	COST
11019	NEW! RAINBOW plus SPECTRUM INTERFACE COMPLETE	$49.95
11020	RAINBOW plus INTERFACE LESS EPROM	$34.99
11021	RAINBOW plus EPROM	$14.99
	SPECTRUM HARDWARE FOR USE WITH THE RAINBOW plus INTERFACE	
11012	DAMCO/ROTRONICS WAFADRIVE- SPECTRUM VERSION	$99.95
11022	WAFADRIVE AND RAINBOW plus COMBO	$149.90
11014	D'KTRONICS JOY STICK INTERFACE	$19.95
11015	D'KTRONICS HIGH RES LIGHT PEN	$29.95
11016	D'KTRONICS SPEECH SYNTHESISER	$34.95
11017	D'KTRONICS SOUND SYNTHESISER	$39.95
12010	16K WAFER	$2.99
12011	64K WAFER	$3.49
12012	128K WAFER	$3.99
12013	HEATHROW/NIGHT FLIGHT II (HEWSON)	$19.95
12014	SPACE WARES/SEIDDAB ATTACK/LUNA ATTACK (HEWSON)	$19.95
12015	BEAR BOVVER/WONG'S LOOPY LAUNDRY/ WORLD CUP (ARTIC)	$14.95
12016	STARBIKE (SOFTEK)	
12018	ZAP MACHINE CODE DEVELOPMENT PACKAGE (HEWSON)	$24.95
12019	HUMPTY DUMPTY TRILOGY (ARTIC)	$12.95
12020	SHERLOCK (MELBORN HOUSE)	$19.95
12021	MUGSY (MELBORN HOUSE)	$12.95
12022	MELBORN DRAW (MELBORN HOUSE)	$12.95
12026	TRANS-EXPRESS TRANSFER TAPE TO WAFER & TAPE TO TAPE	$19.95
	BUSINESS PROGRAMS	
12023	ADRESS MANAGER (OCP)	$24.95
12024	FINANCE MANAGER (OCP)	$24.95
12025	STOCK MANAGER (OCP)	$24.95
	ALL THESE BUSNESS PROGRAMS ARE 80 COLUMN VERSIONS	
13010	RS232 CABLE	$12.95
13011	CENTRONICS (PARALLEL) CABLE	$12.95
13012	WAFADRIVE ENGINEERING BULLETIN (PRICE INCLUDES POSTAGE)	$4.50

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NEW ITEM !!!

12027 ROTRONICS WAFADRIVE TOOL KIT WAFER ‡ CONTAINS A NUMBER OF ROUTINES WHICH WILL BE FOUND TO BE INVALUABLE TO THE WAFADRIVE USER $14.95

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PAYMENT CAN BE MADE IN THE FORM OF MONEY ORDER, CHECK, VISA, OR MASTERCARD. PERSONAL CHECKS TAKE TWO WEEKS TO CLEAR. VISA AND MASTERCARD ORDERS MUST INCLUDE NUMBER, EXPIRATION DATE, AND OWNERS SIGNATURE

MASSACHUSETTS RESIDENTS ADD 5% SALES TAX

POSTAGE $5.00 FOR WAFADRIVES
$2.00 PER ORDER FOR SOFTWARE AND CABLES AND RAINBOW INTERFACE
($1.50 FOR SINGLE ORDER ITEMS)
$2.50 FOR OTHER ITEMS
NO MORE THAN $5.00 POSTAGE REQUIRED PER ORDER

VISA/MASTERCARD ORDERS - $10.00 MIN.

DUE TO THE FLUCTUATION IN THE INTERNATIONAL CURRENCY, OUR PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE.

form 02.23

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EXCITING PRODUCTS FOR YOUR TIMEX2068 INSIDE